(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 7 April 2005 (07.04.2005)

(10) International Publication Number WO 2005/030081 A1

(51) International Patent Classification7: // A61B 17/86, A61F 2/46

A61C 8/00

(21) International Application Number:

PCT/SE2004/001372

(22) International Filing Date:

24 September 2004 (24.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0302597-0

1 October 2003 (01.10.2003)

(71) Applicant (for all designated States except US): NOBEL BIOCARE AB (PUBL) [SE/SE]; Box 5190, S-402 26 Göteborg (SE).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): JÖRNÉUS, Lars [SE/SE]; Riabergsvägen 7B, S-430 30 Frillesås (SE). DURIC, Sanel [SE/SE]; Lundgren, Odingsgatan 22B, S-411 03 (SE).
- (74) Agent: OLSSON, Gunnar; Nobel Biocare AB (publ), Box 5190, S-402 26 Göteborg (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

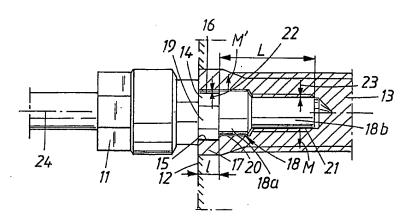
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPLANT ARRANGEMENT WITH AN INTERNAL SOCKET FOR A TURNING TOOL



(57) Abstract: An implant is provided with an upper portion in which an internal socket extends. The implant (12) can be tightened by means of a turning instrument (11) which has first lateral surfaces (14) that can cooperate with corresponding second lateral surfaces (15) in the internal socket. One or more of the first and/or second lateral surfaces is/are arranged completely or partially with friction-enhancing means (16). The implant and the tool are arranged with interacting parts which extend beyond the first and second lateral surfaces and completely or substantially take up bending moments (M, M') which act in or on said portion or are directed toward said portion and occur in the event of skewing, or a tendency toward skewing, between the implant and the tool. The arrangement counteracts mechanical stresses in said portion, the latter being able to retain its original shape even in the case of implants with small dimensions.

